

**Amendments to the Specification:**

Please insert the Sequence Listing being filed concurrently herewith into the specification.

Please replace paragraph 133 with the following.

For example, a duplex comprising an antisense strand having the sequence CGAGAGGCGGACGGGACCG [SEQ ID No. 161] and having a two-nucleobase overhang of deoxythymidine(dT) would have the following structure:

```
cgagaggcggacgggaccgTT  Antisense Strand [SEQ ID No. 162]
|||||
TTgctctccgcctgccctggc  Complement [SEQ ID No. 163]
```

Please replace paragraph 134 with the following.

In another embodiment, a duplex comprising an antisense strand having the same sequence CGAGAGGCGGACGGGACCG may be prepared with blunt ends (no single stranded overhang) as shown:

```
cgagaggcggacgggaccg  Antisense Strand [SEQ ID No. 161]
|||||
gctctccgcctgccctggc  Complement [SEQ ID No. 164]
```

Please replace paragraph 142 with the following.

In accordance with the present invention, a series of antisense sequences were designed to target different regions of the human CD40 mRNA, using published sequences [Stamenkovic et al., *EMBO J.*, 8, 1403 (1989); GenBank accession number X60592, SEQ ID No. 85]. The sequences are shown in Table 1.

Please amend Table 4, spanning pages 83-87 as follows.

Table 4  
CD40 Antisense Sequence Alignment

| SEQ ID NO:  | 1               | 15               | 16               | 30               | 31               | 45               | 46               | 60               | 61               | 75               | 76               | 90               |
|-------------|-----------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| [9] 173     | -----           | -----            | -----            | -----            | -----            | -----            | -----            | -----            | -----            | -----            | -----            | -----TGC         |
| [8] 172     | -----           | -----            | -----            | -----            | -----            | -----            | -----            | -----            | -----            | -----            | -----            | -----TGC         |
| [7] 171     | -----           | -----            | -----            | -----            | -----            | -----            | -----            | -----            | -----            | -----            | -----            | -----TGC         |
| [6] 170     | -----           | -----            | -----            | -----            | -----            | -----            | -----            | -----            | -----            | -----            | -----            | -----TGC         |
| [5] 169     | -----           | -----            | -----            | -----            | -----            | -----            | -----            | -----            | -----            | -----            | -----            | -----TGC         |
| [4] 168     | -----           | -----            | -----            | -----            | -----            | -----            | -----            | -----            | -----            | -----            | -----            | -----TGC         |
| [3] 167     | -----           | -----            | -----            | -----            | -----            | -----            | -----            | -----            | -----            | -----            | -----            | -----TGC         |
| [2] 166     | -----           | -----            | -----            | -----            | -----            | -----            | -----            | -----            | -----            | -----            | -----            | -----TGC         |
| [1] 165     | -----           | -----            | -----            | -----            | -----            | -----            | -----            | -----            | -----            | -----            | -----            | -----TGC         |
| X60592-CD40 | GCCTCGCTCGGGCGC | CCAGTGGTCCCTGCGC | CCAGTGGTCCCTGCGC | CCAGTGGTCCCTGCGC | CCAGTGGTCCCTGCGC | CCAGTGGTCCCTGCGC | CCAGTGGTCCCTGCGC | CCAGTGGTCCCTGCGC | CCAGTGGTCCCTGCGC | CCAGTGGTCCCTGCGC | CCAGTGGTCCCTGCGC | CCAGTGGTCCCTGCGC |
| [19] 183    | -----           | -----            | -----            | -----            | -----            | -----            | -----            | -----            | -----            | -----            | -----            | -----AC          |
| [18] 182    | -----           | -----            | -----            | -----            | -----            | -----            | -----            | -----            | -----            | -----            | -----            | -----AC          |
| [17] 181    | -----           | -----            | -----            | -----            | -----            | -----            | -----            | -----            | -----            | -----            | -----            | -----AC          |
| [16] 180    | -----           | -----            | -----            | -----            | -----            | -----            | -----            | -----            | -----            | -----            | -----            | -----AC          |
| [15] 179    | -----           | -----            | -----            | -----            | -----            | -----            | -----            | -----            | -----            | -----            | -----            | -----AC          |
| [14] 178    | -----           | -----            | -----            | -----            | -----            | -----            | -----            | -----            | -----            | -----            | -----            | -----AC          |
| [13] 177    | -----           | -----            | -----            | -----            | -----            | -----            | -----            | -----            | -----            | -----            | -----            | -----AC          |
| [12] 176    | -----           | -----            | -----            | -----            | -----            | -----            | -----            | -----            | -----            | -----            | -----            | -----AC          |
| [11] 175    | -----           | -----            | -----            | -----            | -----            | -----            | -----            | -----            | -----            | -----            | -----            | -----AC          |
| [10] 174    | -----           | -----            | -----            | -----            | -----            | -----            | -----            | -----            | -----            | -----            | -----            | -----AC          |
| [9] 173     | -----           | -----            | -----            | -----            | -----            | -----            | -----            | -----            | -----            | -----            | -----            | -----AC          |
| [8] 172     | -----           | -----            | -----            | -----            | -----            | -----            | -----            | -----            | -----            | -----            | -----            | -----AC          |
| [7] 171     | -----           | -----            | -----            | -----            | -----            | -----            | -----            | -----            | -----            | -----            | -----            | -----AC          |
| X60592-CD40 | TGACCGCTGTCCATC | CAGAACCACCCACTG  | CATGCAGAGAAAAAC  | AGTACCTAATAAACA  | GTCAGTGTCTTCTT   | TGTGCCAGCCAGGAC  | TGTGCCAGCCAGGAC  | TGTGCCAGCCAGGAC  | TGTGCCAGCCAGGAC  | TGTGCCAGCCAGGAC  | TGTGCCAGCCAGGAC  | TGTGCCAGCCAGGAC  |

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Table 4, continued

|             |                 |                  |                 |                   |                 |                 |       |       |       |       |       |                      |
|-------------|-----------------|------------------|-----------------|-------------------|-----------------|-----------------|-------|-------|-------|-------|-------|----------------------|
| [27] 191    | 181             | 195              | 196             | 210               | 211             | 225             | 226   | 240   | 241   | 255   | 256   | 270                  |
| [26] 190    | -----           | -----            | -----           | -----             | -----           | -----           | ----- | ----- | ----- | ----- | ----- | -----GAGA            |
| [25] 189    | -----           | -----            | -----           | -----             | -----           | -----           | ----- | ----- | ----- | ----- | ----- | -----TAGACA          |
| [24] 188    | -----           | -----            | -----           | -----             | -----           | -----           | ----- | ----- | ----- | ----- | ----- | -----CCTGGAACAGAG    |
| [23] 187    | -----           | -----            | -----           | -----             | -----           | -----           | ----- | ----- | ----- | ----- | ----- | -----                |
| [22] 186    | -----           | -----            | -----           | -----             | -----           | -----           | ----- | ----- | ----- | ----- | ----- | -----                |
| [21] 185    | -----           | -----            | -----           | -----             | -----           | -----           | ----- | ----- | ----- | ----- | ----- | -----                |
| [20] 184    | -----           | -----            | -----           | -----             | -----           | -----           | ----- | ----- | ----- | ----- | ----- | -----                |
| [19] 183    | -----           | -----            | -----           | -----             | -----           | -----           | ----- | ----- | ----- | ----- | ----- | -----                |
| [18] 182    | -----           | -----            | -----           | -----             | -----           | -----           | ----- | ----- | ----- | ----- | ----- | -----                |
| [17] 181    | -----           | -----            | -----           | -----             | -----           | -----           | ----- | ----- | ----- | ----- | ----- | -----                |
| X60592-CD40 | AGAAACTGGTGAGTG | ACTGCACAGAGTTCA  | CTGAAACGGAATGCC | TTCCCTTGGCGGTGAAA | GCGAATTCCTAGACA | CCTGGAACAGAGAGA |       |       |       |       |       |                      |
| [37] 201    | 271             | 285              | 286             | 300               | 301             | 315             | 316   | 330   | 331   | 345   | 346   | 360                  |
| [36] 200    | -----           | -----            | -----           | -----             | -----           | -----           | ----- | ----- | ----- | ----- | ----- | -----T               |
| [35] 199    | -----           | -----            | -----           | -----             | -----           | -----           | ----- | ----- | ----- | ----- | ----- | -----ACCATCTGCACCT   |
| [34] 198    | -----           | -----            | -----           | -----             | -----           | -----           | ----- | ----- | ----- | ----- | ----- | -----ACACCATCTGCACCT |
| [33] 197    | -----           | -----            | -----           | -----             | -----           | -----           | ----- | ----- | ----- | ----- | ----- | -----                |
| [32] 196    | -----           | -----            | -----           | -----             | -----           | -----           | ----- | ----- | ----- | ----- | ----- | -----                |
| [31] 195    | -----           | -----            | -----           | -----             | -----           | -----           | ----- | ----- | ----- | ----- | ----- | -----                |
| [30] 194    | -----           | -----            | -----           | -----             | -----           | -----           | ----- | ----- | ----- | ----- | ----- | -----                |
| [29] 193    | -----           | -----            | -----           | -----             | -----           | -----           | ----- | ----- | ----- | ----- | ----- | -----                |
| [28] 192    | -----           | -----            | -----           | -----             | -----           | -----           | ----- | ----- | ----- | ----- | ----- | -----                |
| [27] 191    | -----           | -----            | -----           | -----             | -----           | -----           | ----- | ----- | ----- | ----- | ----- | -----                |
| X60592-CD40 | CACACTGCCACCAG  | ACAAATACTGGGCTTC | GGGTCCAGCAGAGG  | GCACCTCAGAAACAG   | ACACCATCTGCACCT |                 |       |       |       |       |       |                      |

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Table 4, continued

|             |                 |                 |                 |                 |                  |                  |      |      |      |      |      |      |
|-------------|-----------------|-----------------|-----------------|-----------------|------------------|------------------|------|------|------|------|------|------|
| [44] 208    | 361             | 375             | 376             | 390             | 391              | 405              | 406  | 420  | 421  | 435  | 436  | 450  |
| [43] 207    | ----            | ----            | ----            | ----            | ----             | ----             | ---- | ---- | ---- | ---- | ---- | ---- |
| [42] 206    | ----            | ----            | ----            | ----            | ----             | ----             | ---- | ---- | ---- | ---- | ---- | ---- |
| [41] 205    | ----            | ----            | ----            | ----            | ----             | ----             | ---- | ---- | ---- | ---- | ---- | ---- |
| [40] 204    | ----            | ----            | ----            | ----            | ----             | ----             | ---- | ---- | ---- | ---- | ---- | ---- |
| [39] 203    | ----            | ----            | ----            | ----            | ----             | ----             | ---- | ---- | ---- | ---- | ---- | ---- |
| [38] 202    | ----            | ----            | ----            | ----            | ----             | ----             | ---- | ---- | ---- | ---- | ---- | ---- |
| [37] 201    | ----            | ----            | ----            | ----            | ----             | ----             | ---- | ---- | ---- | ---- | ---- | ---- |
| [36] 200    | ----            | ----            | ----            | ----            | ----             | ----             | ---- | ---- | ---- | ---- | ---- | ---- |
| [35] 199    | ----            | ----            | ----            | ----            | ----             | ----             | ---- | ---- | ---- | ---- | ---- | ---- |
| X60592-CD40 | GTGAAGAAGGCTGGC | ACTGTACGAGTGGG  | CCTGTGAGAGCTGTG | TCCTGCACCGCTCAT | GCTGCCCCGGCTTTG  | GGGTCAAGCAGATTG  |      |      |      |      |      |      |
| [56] 220    | 451             | 465             | 466             | 480             | 481              | 495              | 496  | 510  | 511  | 525  | 526  | 540  |
| [55] 219    | ----            | ----            | ----            | ----            | ----             | ----             | ---- | ---- | ---- | ---- | ---- | ---- |
| [54] 218    | ----            | ----            | ----            | ----            | ----             | ----             | ---- | ---- | ---- | ---- | ---- | ---- |
| [53] 217    | ----            | ----            | ----            | ----            | ----             | ----             | ---- | ---- | ---- | ---- | ---- | ---- |
| [52] 216    | ----            | ----            | ----            | ----            | ----             | ----             | ---- | ---- | ---- | ---- | ---- | ---- |
| [51] 215    | ----            | ----            | ----            | ----            | ----             | ----             | ---- | ---- | ---- | ---- | ---- | ---- |
| [50] 214    | ----            | ----            | ----            | ----            | ----             | ----             | ---- | ---- | ---- | ---- | ---- | ---- |
| [49] 213    | ----            | ----            | ----            | ----            | ----             | ----             | ---- | ---- | ---- | ---- | ---- | ---- |
| [48] 212    | ----            | ----            | ----            | ----            | ----             | ----             | ---- | ---- | ---- | ---- | ---- | ---- |
| [47] 211    | ----            | ----            | ----            | ----            | ----             | ----             | ---- | ---- | ---- | ---- | ---- | ---- |
| [46] 210    | ----            | ----            | ----            | ----            | ----             | ----             | ---- | ---- | ---- | ---- | ---- | ---- |
| [45] 209    | ----            | ----            | ----            | ----            | ----             | ----             | ---- | ---- | ---- | ---- | ---- | ---- |
| [44] 208    | ----            | ----            | ----            | ----            | ----             | ----             | ---- | ---- | ---- | ---- | ---- | ---- |
| X60592-CD40 | CTACAGGGGTTTCTG | ATACCATCTGCGAGC | CCTGCCAGTCGGCT  | TCTTCTCCAATGTGT | CATCTGCTTTTCGAAA | AATGTCACCCCTTGGG |      |      |      |      |      |      |

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Table 4, continued

|             |                 |                 |                 |                  |                 |                 |         |       |       |                |           |            |
|-------------|-----------------|-----------------|-----------------|------------------|-----------------|-----------------|---------|-------|-------|----------------|-----------|------------|
| [65] 229    | 541             | 555             | 556             | 570              | 571             | 585             | 586     | 600   | 601   | 615            | 616       | 630        |
| [64] 228    | -----           | -----           | -----           | -----            | -----           | -----           | -----   | ----- | ----- | -----          | -----     | AGCCC      |
| [63] 227    | -----           | -----           | -----           | -----            | -----           | -----           | -----   | ----- | ----- | -----          | -----     | CTGAGAGCCC |
| [62] 226    | -----           | -----           | -----           | -----            | -----           | -----           | -----   | ----- | ----- | GTCCCCAGG      | ATCGGCTGA | -----      |
| [61] 225    | -----           | -----           | -----           | -----            | -----           | -----           | -----   | ----- | ----- | TCTGTGGTCCCCAG | -----     | -----      |
| [60] 224    | -----           | -----           | -----           | -----            | -----           | -----           | -----   | ----- | ----- | TCTGTGG        | -----     | -----      |
| [59] 223    | -----           | -----           | -----           | -----            | -----           | GGCAGGCACAA     | ACAAGAC | ----- | ----- | -----          | -----     | -----      |
| [58] 222    | -----           | -----           | -----           | -----            | -----           | -----           | AC      | ----- | ----- | -----          | -----     | -----      |
| [57] 221    | -----           | -----           | -----           | -----            | -----           | -----           | -----   | ----- | ----- | -----          | -----     | -----      |
| [56] 220    | -----           | -----           | -----           | -----            | -----           | -----           | -----   | ----- | ----- | -----          | -----     | -----      |
| [55] 219    | -----           | -----           | -----           | -----            | -----           | -----           | -----   | ----- | ----- | -----          | -----     | -----      |
| [54] 218    | -----           | -----           | -----           | -----            | -----           | -----           | -----   | ----- | ----- | -----          | -----     | -----      |
| X60592-CD40 | CAAGCTGTGAGACCA | AAGACCTGGTTGTGC | AACAGGCAGGCACAA | ACAAGACTGATGTTG  | TCTGTGGTCCCCAGG | ATCGGCTGAGAGCCC | -----   | ----- | ----- | -----          | -----     | -----      |
| [69] 233    | 631             | 645             | 646             | 660              | 661             | 675             | 676     | 690   | 691   | 705            | 706       | 720        |
| [68] 232    | -----           | -----           | -----           | -----            | -----           | -----           | -----   | ----- | ----- | -----          | -----     | -----      |
| [67] 231    | -----           | -----           | -----           | -----            | -----           | -----           | -----   | ----- | ----- | -----          | -----     | -----      |
| [66] 230    | -----           | -----           | -----           | -----            | -----           | -----           | -----   | ----- | ----- | -----          | -----     | -----      |
| [65] 229    | -----           | -----           | -----           | -----            | -----           | -----           | -----   | ----- | ----- | -----          | -----     | -----      |
| [64] 228    | -----           | -----           | -----           | -----            | -----           | -----           | -----   | ----- | ----- | -----          | -----     | -----      |
| X60592-CD40 | TGGTGGTGATCCCCA | TCATCTTCGGGATCC | TGTTTGCCATCCTCT | TGGTGGTGGTCTTTTA | TCAAAA          | -----           | -----   | ----- | ----- | -----          | -----     | -----      |

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Table 4, continued

|             |                 |                |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
|-------------|-----------------|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| [78] 242    | 721             | 735            | 736             | 750             | 751             | 765             | 766             | 780             | 781             | 795             | 796             | 810             |
| [77] 241    | ---             | ---            | ---             | ---             | ---             | ---             | ---             | ---             | ---             | ---             | ---             | ---             |
| [76] 240    | ---             | ---            | ---             | ---             | ---             | ---             | ---             | ---             | ---             | ---             | ---             | ---             |
| [75] 239    | ---             | ---            | ---             | ---             | ---             | ---             | ---             | ---             | ---             | ---             | ---             | ---             |
| [74] 238    | ---             | ---            | ---             | ---             | ---             | ---             | ---             | ---             | ---             | ---             | ---             | ---             |
| [73] 237    | ---             | ---            | ---             | ---             | ---             | ---             | ---             | ---             | ---             | ---             | ---             | ---             |
| [72] 236    | ---             | ---            | ---             | ---             | ---             | ---             | ---             | ---             | ---             | ---             | ---             | ---             |
| [71] 235    | ---             | ---            | ---             | ---             | ---             | ---             | ---             | ---             | ---             | ---             | ---             | ---             |
| [70] 234    | ---             | ---            | ---             | ---             | ---             | ---             | ---             | ---             | ---             | ---             | ---             | ---             |
| X60592-CD40 | AGGCCCCCACC     | AGCAGGAACCC    | AGATCAATTTTCCCG | AGATCAATTTTCCCG | AGATCAATTTTCCCG | AGATCAATTTTCCCG | AGATCAATTTTCCCG | AGATCAATTTTCCCG | AGATCAATTTTCCCG | AGATCAATTTTCCCG | AGATCAATTTTCCCG | AGATCAATTTTCCCG |
| [81] 245    | 811             | 825            | 826             | 840             | 841             | 855             | 856             | 870             | 871             | 885             | 886             | 900             |
| [80] 244    | ---             | ---            | ---             | ---             | ---             | ---             | ---             | ---             | ---             | ---             | ---             | ---             |
| [79] 243    | ---             | ---            | ---             | ---             | ---             | ---             | ---             | ---             | ---             | ---             | ---             | ---             |
| [78] 242    | ---             | ---            | ---             | ---             | ---             | ---             | ---             | ---             | ---             | ---             | ---             | ---             |
| [77] 241    | ---             | ---            | ---             | ---             | ---             | ---             | ---             | ---             | ---             | ---             | ---             | ---             |
| [86] 240    | ---             | ---            | ---             | ---             | ---             | ---             | ---             | ---             | ---             | ---             | ---             | ---             |
| X60592-CD40 | TACATGGATGCCAAC | CGGTACCCAGGAGG | ATGGCAAAGAGAG   | ATGGCAAAGAGAG   | ATGGCAAAGAGAG   | ATGGCAAAGAGAG   | ATGGCAAAGAGAG   | ATGGCAAAGAGAG   | ATGGCAAAGAGAG   | ATGGCAAAGAGAG   | ATGGCAAAGAGAG   | ATGGCAAAGAGAG   |
| [84] 248    | 901             | 915            | 916             | 930             | 931             | 945             | 946             | 960             | 961             | 975             | 976             | 990             |
| [83] 247    | ---             | ---            | ---             | ---             | ---             | ---             | ---             | ---             | ---             | ---             | ---             | ---             |
| [82] 246    | ---             | ---            | ---             | ---             | ---             | ---             | ---             | ---             | ---             | ---             | ---             | ---             |
| X60592-CD40 | TGTGGCCACGTGGG  | AAACAGGCAGTT   | AAACAGGCAGTT    | AAACAGGCAGTT    | AAACAGGCAGTT    | AAACAGGCAGTT    | AAACAGGCAGTT    | AAACAGGCAGTT    | AAACAGGCAGTT    | AAACAGGCAGTT    | AAACAGGCAGTT    | AAACAGGCAGTT    |
| [84] 248    | 991             | 1004           | ---             | ---             | ---             | ---             | ---             | ---             | ---             | ---             | ---             | ---             |
| X60592-CD40 | AGT-----        | AGT-----       | AGT-----        | AGT-----        | AGT-----        | AGT-----        | AGT-----        | AGT-----        | AGT-----        | AGT-----        | AGT-----        | AGT-----        |

Please replace paragraph 192 with the following.

Total RNA was isolated using an RNeasy Mini Kit (Qiagen). Two-step RT-PCR was performed using primers complementary to sequences of the CD40 gene (Genbank accession# M83312, incorporated herein as SEQ ID NO: 92). Reverse transcription was performed using a reverse primer (5'-TGATATAGAGAAACACCCCGAAAATGG-3'; SEQ ID NO: 93) complementary to sequence in exon 7. The resulting cDNA was subjected to 35 cycles of PCR using a forward primer consisting of a sequence span identical to that found in exon 5 of the gene (5'-GCCACTGAGACCACTGATACCGTCTGT-3'; SEQ ID NO: 94) as well as the reverse primer used for cDNA generation. The resulting PCR products were separated on a 1.6% agarose gel. PCR products were excised and the DNA purified. The resulting products were sequenced using primers used in PCR. Real-time quantitative RT-PCR was performed on total RNA from BCL<sub>1</sub> or primary macrophages using an ABI Prism® 7700. Primer and dual labeled probe sequences were as follows:

Mouse IL-12 p40:

forward 5'-GCCAGTACACCTGCCACAAA- 3', SEQ ID No. 95  
reverse 5'-GACCAAATTCCATTTTCCTTCTTG-3', SEQ ID No. 96  
probe 5'-FAM-AGGCGAGACTCTGAGCCACTCACATCTG-TAMRA-3' ,  
SEQ ID No. 97

Mouse CD18:

Forward 5'-CTGCATGTCCGGAGGAAATT-3' SEQ ID No. 98  
Reverse 5'-AGCCATCGTCTGTGGCAAA-3' SEQ ID No. [9] 99

Probe 5'-FAM-CTGGCGCAATGTCACGAGGCTG-TAMRA-3', SEQ ID  
No. 100

## Mouse CD40, Type 1:

Forward 5'-CACTGATACCGTCTGTCATCCCT-3' SEQ ID No. 101  
Reverse 5'-AGTTCTTATCCTCACAGCTTGTTCA-3' SEQ ID No. 102  
Probe 5'-FAM-AGTCGGCTTCTTCTCCAATCAGTCATCACTT-TAMRA-3'  
SEQ ID No. 103

## Mouse CD40, Type 2:

Forward 5'-CACTGATACCGTCTGTCATCCCT-3' SEQ ID No. 104  
Reverse 5'-CCACATCCGGGACTTTAAACCTTGT-3' SEQ ID No. 105  
Probe 5'-FAM-CCAGTCGGCTTCTTCTCCAATCAGTCA-TAMRA-3' SEQ  
ID No. 106

## Mouse CD40:

Forward 5'-TGTGTTACGTGCAGTGACAAACAG-3' SEQ ID No. 107  
Reverse 5'-GCTTCCTGGCTGGCACAA-3' SEQ ID No. 108  
Probe 5'-FAM-CCTCCACGATCGCCAGTGCTGTG-TAMRA-3' SEQ ID  
No. 109

## Mouse cyclophilin:

Forward 5'-TCGCCGCTTGCTGCA-3' SEQ ID No. 110  
Reverse 5'-ATCGGCCGTGATGTCGA-3' SEQ ID No. 111  
Probe 5'-FAM-CCATGGTCAACCCACCGTGTTT-TAMRA-3' SEQ ID  
No. 112



Please amend Table 9, spanning pages 112-121 with the following.

Table 9

## Additional PNA Cationic Conjugate Compounds of SEQ ID NO: 124

| Isis #/Lot# | N-terminal modification         | C-terminal modification | notes | CD40 Protein (% UTC @ 10 $\mu$ M) | $t_{1/2}$ [h] in mouse serum | Est. $t_{1/2}$ [h] in 100% mouse serum |
|-------------|---------------------------------|-------------------------|-------|-----------------------------------|------------------------------|--|
| 208529-1    |                                 | K                       |       | 80, 98, 100                       | stable                       | stable                                 |
| 278640-1    | K                               | K                       |       | 80                                | <i>n.d.</i>                  |  |
| 278641-1    | K <sub>2</sub>                  | K                       |       | 90                                | <i>n.d.</i>                  |  |
| 278642-1    | K <sub>3</sub>                  | K                       |       | 80                                | <i>n.d.</i>                  |  |
| 278643-1    | K <sub>4</sub> (SEQ ID NO: 161) | K                       |       | 100                               | <i>n.d.</i>                  |  |
| 278644-1    | K <sub>5</sub> (SEQ ID NO: 162) | K                       |       | 70                                | <i>n.d.</i>                  |  |
| 278645-1    | K <sub>6</sub> (SEQ ID NO: 163) | K                       |       | 50                                | <i>n.d.</i>                  |  |
| 278646-1    | K <sub>7</sub> (SEQ ID NO: 164) | K                       |       | 30                                | <i>n.d.</i>                  |  |
| 278647-1    | K <sub>8</sub> (SEQ ID NO: 165) | K                       |       | 20, 30, 35, 30, 15                | 5.7                          | 1.4                                    |
| 287294-1    | K <sub>8</sub>                  | K                       | 4 mm  | 100                               | <i>n.d.</i>                  |  |
| 287293-1    | K <sub>6</sub>                  | K                       | 4 mm  | 100                               | <i>n.d.</i>                  |  |
| 284381-1    |                                 | K <sub>2</sub>          |       | 95                                | <i>n.d.</i>                  |  |
| 279866-1    |                                 | K <sub>4</sub>          |       | 85                                | 6.5                          | 1.6                                    |
| 284375-1    |                                 | K <sub>8</sub>          |       | 40, 35, 35, 40, 35, 45, 73, 68    | 1                            | 0.25                                   |
| 290075-1    | R                               | K                       |       | 100                               | <i>n.d.</i>                  |  |
| 290076-1    | R <sub>2</sub>                  | K                       |       | 90                                | <i>n.d.</i>                  |  |

| Isis #/Lot# | N-terminal<br>modification      | C-terminal<br>modification                             | notes | CD40 Protein<br>(% UTC @ 10 $\mu$ M) | $t_{1/2}$ [h] in 25%<br>mouse serum | Est. $t_{1/2}$ [h] in<br>100% mouse<br>serum |
|-------------|---------------------------------|--|-------|--------------------------------------|-------------------------------------|--|
| 290077-1    | R <sub>3</sub>                  | K  |       | 90                                   | <i>n.d.</i>                         |  |
| 290078-1    | R <sub>4</sub> (SEQ ID NO: 166) | K  |       | 80                                   | <i>n.d.</i>                         |  |
| 290079-1    | R <sub>5</sub> (SEQ ID NO: 167) | K  |       | 80                                   | <i>n.d.</i>                         |  |
| 297780-1    | R <sub>6</sub> (SEQ ID NO: 168) | K  |       | 75                                   | <i>n.d.</i>                         |  |
| 290081-1    | R <sub>7</sub> (SEQ ID NO: 169) | K  |       | 70                                   | <i>n.d.</i>                         |  |
| 290082-2    | R <sub>8</sub> (SEQ ID NO: 170) | K  |       | 60                                   | 3.2                                 | 0.8  |
| 301010-1    | D-R <sub>8</sub>                | K  |       | 49                                   | <i>n.d.</i>                         |  |
| 299870-1    |                                 | K <sub>3</sub> RK <sub>2</sub> (SEQ ID<br>NO: 171)     |       | 48                                   | <i>n.d.</i>                         |  |
| 299871-1    |                                 | D(K <sub>3</sub> RK <sub>2</sub> ) (SEQ<br>ID NO: 172) |       | 53                                   | <i>n.d.</i>                         |  |
| 284382-1    | K <sub>2</sub>                  | K <sub>2</sub>   |       | 85                                   | <i>n.d.</i>                         |  |
| 279867-1    | K <sub>4</sub>                  | K <sub>4</sub>   |       | 75                                   | <i>n.d.</i>                         |  |
| 284383-1    | Ada-O                           | K <sub>2</sub>   |       | 80                                   | <i>n.d.</i>                         |  |
| 284384-1    | Ada-O-K <sub>2</sub>            | K <sub>2</sub>   |       | 85                                   | <i>n.d.</i>                         |  |
| 279975-1    | Ada-O                           | K <sub>4</sub>   |       | 95                                   | <i>n.d.</i>                         |  |
| 279976-1    | Ada-O-K <sub>4</sub>            | K <sub>4</sub>   |       | 75                                   | <i>n.d.</i>                         |  |
| 284376-1    | Ada-O                           | K <sub>8</sub>   |       | 40                                   | <i>n.d.</i>                         |  |
| 284385-1    | Pam-O                           | K <sub>2</sub>   |       | <i>n/a</i> tox.                      | <i>n.d.</i>                         |  |
| 284386-1    | Pam-O-K <sub>2</sub>            | K <sub>2</sub>   |       | <i>n/a</i> tox.                      | <i>n.d.</i>                         |  |
| 283582-1    | Pam-O                           | K <sub>4</sub>   |       | 70                                   | <i>n.d.</i>                         |  |
| 283583-1    | Pam-O-K <sub>4</sub>            | K <sub>4</sub>   |       | 60                                   | <i>n.d.</i>                         |  |

| Isis #/Lot# | N-terminal<br>modification       | C-terminal<br>modification | notes | CD40 Protein<br>(% UTC @ 10 $\mu$ M) | $t_{1/2}$ [h] in 25%<br>mouse serum | Est. $t_{1/2}$ [h] in<br>100% mouse<br>serum |
|-------------|----------------------------------|----------------------------|-------|--------------------------------------|-------------------------------------|--|
| 284377-1    | Pam-O                            | K <sub>8</sub>             |       | n/a tox.                             | n.d.                                |  |
| 290061-1    | Ibu-O                            | K <sub>2</sub>             |       | 80                                   | n.d.                                |  |
| 287086-1    | Ibu-O                            | K <sub>8</sub>             |       | 30                                   | 1                                   | 0.25   |
| 311573-1    | Ibu-O-K <sub>8</sub>             | K                          |       | n.d.                                 | n.d.                                |  |
| 290063-1    | CHA-O                            | K <sub>2</sub>             |       | 95                                   | n.d.                                |  |
| 290064-1    | Chol-O-                          | K <sub>2</sub>             |       | n/a tox.                             | n.d.                                |  |
| 292097-1    | CHA-O-K <sub>8</sub>             | K                          |       | 55                                   | n.d.                                |  |
| 292098-1    | Chol-O-K <sub>8</sub>            | K                          |       | n/a tox.                             | n.d.                                |  |
| 298110-1    | Branch1-K                        | K                          |       | 60                                   | n.d.                                |  |
| 298111-1    | Branch3-K                        | K                          |       | 85                                   | n.d.                                |  |
| 298112-1    | Branch4-K                        | K                          |       | 60                                   | n.d.                                |  |
| 298113-1    | Branch5-K                        | K                          |       | 75                                   | n.d.                                |  |
| 298114-1    | Branch6-K                        | K                          |       | 70                                   | n.d.                                |  |
| 298116-1    | Branch2-K                        | K                          |       | 40                                   | n.d.                                |  |
| 303537-1    | RacaRRacaRRacaRR                 | K                          |       | 23, 29                               | 2                                   | 0.5  |
| 303540-1    | KacaKKacaKKacaKK                 | K                          |       | 70                                   | n.d.                                |  |
| 303538-1    | RacaRacaRacaRacaRacaRacaR        | K                          |       | 40                                   | n.d.                                |  |
| 309743-1    | dR.aca.dR.dR.aca.dR.dR.aca.dR.dR | K                          |       | 35                                   | n.d.                                |  |
| 303539-1    | KacaKacaKacaKacaKacaKacaK        | K                          |       | 61                                   | n.d.                                |  |

| Isis #/Lot# | N-terminal<br>modification                     | C-terminal<br>modification | notes | CD40 Protein<br>(% UTC @ 10 $\mu$ M) | $t_{1/2}$ [h] in 25%<br>mouse serum | Est. $t_{1/2}$ [h] in<br>100% mouse<br>serum |
|-------------|--|----------------------------|-------|--------------------------------------|-------------------------------------|--|
| 291341-1    | KGKKGK (SEQ-ID<br>NO: 173)                     | K                          |       | 87                                   | <i>n.d.</i>                         |  |
| 291342-1    | KaocKKaocKaocK                                 | K                          |       | 79                                   | <i>n.d.</i>                         |  |
| 330890-1    | hR-O-hR-hR-O-hR-hR-<br>O-hR-hR                 | K                          |       | 25 at 3 $\mu$ M                      | 59                                  | 12   |
| 338896-1    | hR-O-R-hR-O-R-hR-O-<br>R-hR                    | K                          |       | 49                                   | 2                                   | 0.5  |
| 338897-1    | R-O-hR-R-O-hR-R-O-<br>hR-R                     | K                          |       | 54                                   | 4                                   | 1  |
| 315570-1    | RacaRRacaRRacaRR-<br>PKKKRKV                   | K                          |       | 25                                   | <i>n.d.</i>                         |  |
| 315571-1    | RacaRRacaRRacaRR-<br>KKVKPKR                   | K                          |       | 41                                   | <i>n.d.</i>                         |  |
| 315650-1    | PKKKRKV-<br>RacaRRacaRRacaRR                   | K                          |       | 44                                   | <i>n.d.</i>                         |  |
| 315573-1    | KKVKPKR-<br>RacaRRacaRRacaRR                   | K                          |       | 31                                   | <i>n.d.</i>                         |  |
| 309860-1    | R- $\beta$ A-RR- $\beta$ A-RR $\beta$ A-<br>RR | K                          |       | 27                                   | <i>n.d.</i>                         |  |
| 309883-1    | R-abu-RR-abu-RR-abu-<br>RR                     | K                          |       | 26                                   | <i>n.d.</i>                         |  |
| 309861-1    | R-aoc-RR-aoc-RR-aoc-<br>RR                     | K                          |       | 25                                   | <i>n.d.</i>                         |  |
| 309864-1    | R-aca-RR-aca-RR-aca-<br>RR-aca                 | K                          |       | 20                                   | <i>n.d.</i>                         |  |
| 309862-1    | R-O-RR-O-RR-O-RR                               | K                          |       | 24                                   | 2                                   | 0.5  |

| Isis #/Lot# | N-terminal modification                         | C-terminal modification | notes | CD40 Protein (% UTC @ 10 $\mu$ M) | $t_{1/2}$ [h] in 25% mouse serum | Est. $t_{1/2}$ [h] in 100% mouse serum |
|-------------|---|-------------------------|-------|-----------------------------------|----------------------------------|--|
| 309865-1    | RR-aca-RR-aca-RR                                | K                       |       | 40                                | <i>n.d.</i>                      |  |
| 309866-1    | R-aca-RR-aca-RR                                 | K                       |       | 58                                | <i>n.d.</i>                      |  |
| 309884-1    | R-inp-RR-inp-RR-RR                              | K                       |       | 29                                | <i>n.d.</i>                      |  |
| 309885-1    | R-amc-RR-amc-RR-amc-RR                          | K                       |       | 27                                | <i>n.d.</i>                      |  |
| 291350-2    | ( $\beta$ K) <sub>8</sub>                       | K                       |       | 66                                | <i>n.d.</i>                      |  |
| 309843-1    | $\beta$ K- $\beta$ K-KKKK- $\beta$ K- $\beta$ K | K                       |       | 52                                | <i>n.d.</i>                      |  |
| 309844-1    | (K- $\beta$ K) <sub>4</sub>                     | K                       |       | 62                                | <i>n.d.</i>                      |  |
| 309845-1    | KK- $\beta$ K-KK- $\beta$ K-KK                  | K                       |       | 61                                | <i>n.d.</i>                      |  |
| 303536-1    | D-(Om) <sub>8</sub>                             | K                       |       | 67                                | <i>n.d.</i>                      |  |
| 303327-1    | (Om) <sub>8</sub>                               | (Om) <sub>8</sub>       |       | 64                                | <i>n.d.</i>                      |  |
| 301011-2    | (Om) <sub>8</sub>                               | K                       |       | 77                                | > 48                             | > 12                                   |
| 309143-1    | Om-Om-KKKK-Om-Om                                | K                       |       | 52                                | <i>n.d.</i>                      |  |
| 309144-1    | (K-Om) <sub>4</sub>                             | K                       |       | 42                                | <i>n.d.</i>                      |  |
| 309145-1    | KK-Om-KK-Om-KK                                  | K                       |       | 34                                | 19                               | 4.75                                   |
| 311069-1    | KKKKK-Om-KK                                     | K                       |       | 50                                | <i>n.d.</i>                      |  |
| 311070-1    | KK-Om-KKKKK                                     | K                       |       | 53                                | <i>n.d.</i>                      |  |
| 287292-2    | (dK) <sub>8</sub>                               | K                       |       | 54                                | stable                           | > 48                                   |
| 305390-1    | dKdK-KKKKK-dKdK                                 | K                       |       | 60                                | <i>n.d.</i>                      |  |
| 305391-1    | K-dK-K-dK-K-dK-K-dK                             | K                       |       | 69                                | <i>n.d.</i>                      |  |

| Isis #/Lot# | N-terminal<br>modification   | C-terminal<br>modification | notes | CD40 Protein<br>(% UTC @ 10 $\mu$ M) | t <sub>1/2</sub> [h] in 25%<br>mouse serum | Est. t <sub>1/2</sub> [h] in<br>100% mouse<br>serum |
|-------------|--|----------------------------|-------|--------------------------------------|--|---|
| 305392-1    | KK-dK-KK-dK-KK   | K                          |       | 62                                   | stable                                     | > 48  |
| 311071-1    | KKKKK-dK-KK  | K                          |       | 61                                   | <i>n.d.</i>                                |   |
| 311072-1    | KK-dK-KKKKK  | K                          |       | 59                                   | <i>n.d.</i>                                |   |
| 305393-1    | RRKKKKRRR (SEQ<br>ID NO: 174)                                      | K                          |       | 65                                   | <i>n.d.</i>                                |   |
| 305394-1    | KRKRRKR (SEQ ID<br>NO: 175)  | K                          |       | 52                                   | <i>n.d.</i>                                |   |
| 305395-1    | KKRKKRKK (SEQ ID<br>NO: 176)                                       | K                          |       | 43                                   | 2.5  | 0.6   |
| 308579-1    | (hK) <sub>8</sub>  | K                          |       | 31                                   | 18   | 4.5   |
| 308580-1    | hKhK-KKKK-hKhK   | K                          |       | 34                                   | <i>n.d.</i>                                |   |
| 308581-1    | K-hK-K-hK-K-hK-K-<br>hK  | K                          |       | 32                                   | <i>n.d.</i>                                |   |
| 308582-1    | KK-hK-KK-hK-KK   | K                          |       | 31                                   | 7.5  | 1.9   |
| 316409-1    | (Dab) <sub>8</sub>   | K                          |       | 77                                   | > 48                                       | > 12  |
| 316410-1    | (Dab) <sub>2</sub> -K-(Dab) <sub>2</sub> -K-<br>(Dab) <sub>2</sub> | K                          |       | 64                                   | <i>n.d.</i>                                |   |
| 316411-1    | (Dab-K) <sub>4</sub>   | K                          |       | 52                                   | <i>n.d.</i>                                |   |
| 316412-1    | KK-Dab-KK-Dab-KK   | K                          |       | 38                                   | 40   | 10  |
| 316427-1    | (K-ab) <sub>8</sub>  | K                          |       | 47                                   | <i>n.d.</i>                                |   |
| 316428-1    | (K-(K-ab)) <sub>4</sub>  | K                          |       | 41                                   | <i>n.d.</i>                                |   |
| 316429-1    | KK-(K-ab)-KK-(K-ab)-<br>KK   | K                          |       | 39                                   | <i>n.d.</i>                                |   |

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|------------|---|----------------------------|-------|--------------------------------------|-------------------------------------|--|
| 316430-1   | (K-ab) <sub>2</sub> -K-(K-ab) <sub>2</sub> -K-<br>(K-ab) <sub>2</sub> | K                          |       | 55                                   | <i>n.d.</i>                         |  |
| 325598-1   | (dmK) <sub>8</sub>  | K                          |       | 71                                   | stable                              |  |
| 325599-1   | (K-dmK) <sub>4</sub>  | K                          |       | 53                                   | <i>n.d.</i>                         |  |
| 325600-1   | KK-dmK-KK-dmK-KK  | K                          |       | 41                                   | 23                                  | 5.8  |
| 325601-1   | (dmK) <sub>2</sub> -K-(dmK) <sub>2</sub> -K-<br>(dmK) <sub>2</sub>    | K                          |       | 63                                   | <i>n.d.</i>                         |  |
| 326744-1   | (hR) <sub>8</sub>   | K                          |       | 30, 20                               | 15.4                                | 3.9  |
|            | (hhR) <sub>8</sub>  | K                          |       | n/a                                  | stable                              | stable                                       |
| 333677-1   | (K-hR) <sub>4</sub>   | K                          |       | 44                                   | <i>n.d.</i>                         |  |
| 333678-1   | KK-hR-KK-hR-KK  | K                          |       | 36                                   | <i>n.d.</i>                         |  |
| 338894-1   | (DhR) <sub>8</sub>  | K                          |       | n/a tox.                             | <i>n.d.</i>                         |  |
| 338895-1   | RR-DhR-RR-DhR-RR  | K                          |       | 67                                   | 23.6                                | 5.9  |
| 326746-1   | (norR) <sub>8</sub>   | K                          |       | 90 at 3 $\mu$ M                      | > 48                                | > 12   |
| 333674-1   | G(pK) <sub>8</sub>  | K                          |       | 56                                   | > 48                                | > 12   |
| 333675-1   | (K-pK) <sub>4</sub>   | K                          |       | 70                                   | <i>n.d.</i>                         |  |
| 333676-1   | KK-pK-KK-pK-KK  | K                          |       | 60                                   | 29                                  | 7.25   |
| 332593-1   | (H) <sub>8</sub> (SEQ ID NO: 177)                                     | K                          |       | 64                                   | 44.5                                | 11   |
| 332672-1   | (KH) <sub>4</sub> (SEQ ID<br>NO: 178)                                 | K                          |       | 73                                   | <i>n.d.</i>                         |  |
| 332673-1   | KKHKHKHK (SEQ ID<br>NO: 179)  | K                          |       | 52                                   | 5.7                                 | 1.4  |
| 332674-1   | KKGKKGKK (SEQ ID<br>NO: 180)  | K                          |       | 59                                   | <i>n.d.</i>                         |  |

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|-------------|-----------------------------------|----------------------------|-------|--------------------------------------|-------------------------------------|--|
|             | NO-180)                           |                            |       |                                      |                                     |  |
| 313685-1    | K <sub>7</sub> -Ci                | K                          |       | 65                                   | <i>n.d.</i>                         |  |
| 313686-1    | K <sub>6</sub> -Ci-K              | K                          |       | 59                                   | <i>n.d.</i>                         |  |
| 313687-1    | K <sub>5</sub> -Ci-K <sub>2</sub> | K                          |       | 53                                   | <i>n.d.</i>                         |  |
| 313688-1    | K <sub>4</sub> -Ci-K <sub>3</sub> | K                          |       | 52                                   | <i>n.d.</i>                         |  |
| 313689-1    | K <sub>3</sub> -C-K <sub>4</sub>  | K                          |       | 57                                   | <i>n.d.</i>                         |  |
| 313690-1    | K <sub>2</sub> -Ci-K <sub>5</sub> | K                          |       | 55                                   | <i>n.d.</i>                         |  |
| 313691-1    | K-Ci-K <sub>6</sub>               | K                          |       | 57                                   | <i>n.d.</i>                         |  |
| 313692-1    | Ci-K <sub>7</sub>                 | K                          |       | 52                                   | <i>n.d.</i>                         |  |
| 313693-1    | KK-Ci-KK-Ci-KK                    | K                          |       | 65, 67                               | <i>n.d.</i>                         |  |
| 310755-1    | K <sub>8</sub> - $\beta$ A        | K                          |       | 43                                   | <i>n.d.</i>                         |  |
| 310756-1    | K <sub>8</sub> -aca               | K                          |       | 48                                   | <i>n.d.</i>                         |  |
| 310757-1    | K <sub>8</sub> -aoc               | K                          |       | 54                                   | <i>n.d.</i>                         |  |
| 310758-1    | K <sub>8</sub> -adc               | K                          |       | 68                                   | <i>n.d.</i>                         |  |
| 291335-2    | K <sub>8</sub> -aoc-aoc           | K                          |       | 62                                   | <i>n.d.</i>                         |  |
| 310753-1    | K <sub>8</sub> -O                 | K                          |       | 44                                   | <i>n.d.</i>                         |  |
| 310754-1    | K <sub>8</sub> -O-O               | K                          |       | 46                                   | <i>n.d.</i>                         |  |
| 330775-1    | (dK) <sub>8</sub> -FRGO           | K                          |       | 46                                   | 2.8                                 | 0.7  |
| 330776-1    | (dK) <sub>8</sub> -dF-dRGO        | K                          |       | 54                                   | <i>n.d.</i>                         |  |
| 330777-1    | (dK) <sub>8</sub> -ALALGO         | K                          |       | 37                                   | 8.7                                 | 2.2  |
| 330778-1    | (dK) <sub>8</sub> -dA-dLdAdLGO    | K                          |       | 36                                   | <i>n.d.</i>                         |  |



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|------------|--|----------------------------|-------|--------------------------------------|-------------------------------------|--|
| 335296-1   | (dK) <sub>8</sub> -WEHDLO                | K                          |       | 59                                   | > 48                                | 12   |
| 335299-1   | (dK) <sub>8</sub> -dW-dE-dH-dD-<br>dL-O  | K                          |       | 64                                   | <i>n.d.</i>                         |  |
| 335297-1   | (dK) <sub>8</sub> -D-E-V-D-L-O           | K                          |       | 90                                   | > 48                                | > 12   |
| 335300-1   | (dK) <sub>8</sub> -dD-dE-dV-dD-<br>dL-O  | K                          |       | 89                                   | <i>n.d.</i>                         |  |
| 330781-1   | (dK) <sub>8</sub> -G-F-L-G-O             | K                          |       | 38                                   | > 48                                | > 12   |
| 330782-1   | (dK) <sub>8</sub> -G-dF-dL-G-O           | K                          |       | 39                                   | <i>n.d.</i>                         |  |
| 339746-1   | dK <sub>8</sub> -Cys-disulfide-Cys-<br>O | K                          |       | 41                                   | 17                                  | 4.25   |
| 339747-1   | dK <sub>8</sub> -Cys-disulfide-Pen-<br>O | K                          |       | 35                                   | 30                                  | 7.5  |